

**Friday May 20, 2022 7pm**  
**Our Saviors Lutheran Church**  
**1035 Carol Lane Lafayette**  
**License Testing 6pm**

<b>New Members</b>	<b>2</b>
<b>Officers and Appointees</b>	<b>2</b>
<b>President's Message</b>	<b>3</b>
<b>Pleasant Hill Exercise</b>	<b>4</b>
<b>PACIFICON Registration</b>	<b>6</b>
<b>Club's 75th Anniversary</b>	<b>6</b>
<b>Public Service Events</b>	<b>7</b>
<b>2022 Training Schedule</b>	<b>8</b>
<b>Mesh Presentation</b>	<b>9</b>
<b>Carmichael Hamfest</b>	<b>9</b>
<b>Minden, Nevada Hamfest</b>	<b>10</b>
<b>Board Meeting Minutes</b>	<b>11</b>
<b>Ham Radio Outlet</b>	<b>13</b>
<b>Club Repeaters/Nets</b>	<b>14</b>
<b>Club Calendar</b>	<b>14</b>



## THIS MONTH'S MEETING

# THE HISTORY OF LOG PERIODIC DIPOLE ANTENNAS



Past MDARC President and former ARRL East Bay Section Manager Jim Siemons, W6LK, joins us this month remotely from his ranch in Clark, Wyoming. In 2011, Jim purchased Elk Antennas from Ray Gaschk, AG6SI, and Pete Perata, K6SHE. Along with his family, Jim designs and builds Log Periodic Dipole Array antennas (LPDA) and

ships them all over the world for use by amateur, military, public safety and commercial operators.

*Our in-person meeting will also be held virtually, via the Zoom video system. The meeting access ID and password will be distributed via groups.io email announcement. The meeting will also be shown on the club digital amateur television repeater, which is live streamed at: <http://w6cxatv.mdarc.org/> and also live streamed on YouTube on the **Media MDARC** channel.*



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You shop. Amazon gives.

**When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.**

**Go to:**

**<https://smile.amazon.com/ch/23-7072059>**

**ALL MEMBERS ARE INVITED TO JOIN THE FREE CLUB E-MAIL GROUP AT:**

**<https://groups.io/g/MDARC>**

**Mount Diablo Amateur Radio Club W6CX**  
**P.O. Box 23222 Pleasant Hill, CA 94523**  
**(925) 288-1730**

*The Carrier* is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

**President - Ed Morales, KJ6KYT**

**Vice President - vacant**

**Secretary – Brian Lotter, KM6NGS**

**Treasurer - Gene Sylls, KG6EYE**

**Emergency Coordinator - Larry Loomer, KI6LNB**

**Directors At Large**

Trevor Hall, WA6JAU      Cal Vasequez, K6VT

Larry Bradley, KK6QPE      Mike Warren, W6MEW

**Membership Chair – Jan Kulisek, KM6NFC**  
[mdarcmembership@mdarc.org](mailto:mdarcmembership@mdarc.org)

**PACIFICON 2022**

**Chair: Julie Mah, WJ8MAH**

**Registration: Debbie Deeble, KN6DOM**

**Treasurer: Jim Siemons, W6LK**

**Secretary: Jeff Mah, N8MAH**

**COMMITTEE CHAIRS AND COORDINATORS**

**Annual Auction - Jim Siemons, W6LK**

**Communications Trailer - Mike Warren, W6MEW**

**Communications Van MDARC-1 - Jim Tittle, K6SOE**

**Digital Media - Mike Patterson, N6JGA**

**Education & Training - John Primus, AF6RJ**

**Field Day - Larry Loomer, KI6LNB**

**Good & Welfare - Diana Sage, KA6TZU**

**Holiday Dinner - Misa Siemons, KJ6BUE**

**License Testing - Larry Loomer, KI6LNB**

**Outreach - Dick Wade, WM6G**

**Public Service - Larry Loomer, KI6LNB**

**Radio Equipment Lending - Cal Vasequez, K6VT**

**Refreshments - Elizabeth Styles, KG6HLV**

**Repeater Trustee W6LGW - Larry Loomer, KI6LNB**

**Repeater Trustee W6CX - Jim Tittle, K6SOE**

**Scholarship - Janice Fujii, KG6VTD**

**Technical Committee - Jim Tittle, K6SOE**

*The Carrier* Newsletter

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Fred Coe, WB6ASU      [wb6asu@icloud.com](mailto:wb6asu@icloud.com)



# MAY 2022 PRESIDENT'S MESSAGE

Net Control Operator – Yes or No?!

Since becoming president of this great club, I am finding that I spend less time on the radio. This has only occurred to me over the last few days (BTW: I still work fulltime). Even after winning a bid on a new rig (new to me) at the MDARC auction, I really have not had much time to look at it, understand it or use it. The rig works very well (that means it turns on) and it is a good compliment to my current cache of radios. I will at some point work the rig and make it happen. I am actually looking forward to it.

I do want to give a shout out to the awesome Auction Committee that produced a very well-run auction. I hope the membership participated and enjoyed the experience. A special shout out to Jim Siemons, W6LK and Mike Warren, W6MEW. I really believe that Jim and Mike along with the supporting cast did a fabulous job putting the auction together.

I did find a way to force myself to get back on the air. I decided to check in with Dave Piersall, N6ORB and ask him if he would let me run the Thursday evening nets. Dave never turns down my offer.

I don't blame him. Dave has been running the local nets for Central County and the County wide repeater nets for a very long time. He and I are concerned that hams who have checked into these local nets haven't reached out to N6ORB and offer to help with the nets.

Being a Net Control Operator (NCO) is a fun experience. I naturally decided to run many of these weekly nets because I believe it allows me to test my radio gear to make sure everything is working properly. It also gives me the opportunity to learn how to manage radio traffic and work on my radio messaging.

For all you hams checking in, there is ample opportunity, once comfortable, to check into any net where you have the capability (some of the nets are HF or digital based). There is a net almost every day of the week. Some have rosters, some don't. Many of the nets that are roster based will take visitors.

I encourage any Ham who wants to advance their skills to not only check in but run a net. What that means is the answer to the question: NCO, Yes or No? The answer has to be YES!

73,

**Ed Morales, KJ6KYT MDARC President**



# PLEASANT HILL CERT EARTHQUAKE COMMUNICATIONS EXERCISE

**“QST...QST...QST! This is the Net Control station for the Pleasant Hill CERT (Community Emergency Response Team) Simulated Emergency Exercise.”** So began the radio net operation of amateur radio operators on Saturday, February 12, 2022, in support of Pleasant Hill CERT. Led by PH CERT’s leadership team, Jim Bonato, KJ6ULG, and Gordon Doughty, the two hour exercise was the culmination of many months of planning for a response to a simulated earthquake. The first challenge was how to handle the communications to and from the 3-person search teams in the field (neighborhoods) with their respective Incident Command Post (ICP) commander. The city had been divided into four areas, northwest, northeast, southwest and southeast. Each area had an Incident Command Post location with its own commander. The second challenge was how to handle communications to and from the ICPs and the Emergency Operations Center (EOC) located at the police department.



CERT member James Lowe, KN6IKD, copies a message during the exercise. (Photo by Allen Vinson)

Of all the trained CERT volunteers in the city, only a fraction had their amateur radio licenses. Most of those did not have any radios. Most had Family Radio Service (FRS) radios and a few also had General Mobile Radio Service (GMRS) radios. Prior testing of the FRS/GMRS radios showed that FRS radios could reach the ICPs from the neighborhoods. The ICPs have vertical antennas available to help with reception. However, the FRS radios were not able to communicate with the EOC with sufficient clarity for effective emergency communications. So, the first challenge was solved: use FRS/GMRS in the field. The obvious answer to the second challenge was to use VHF amateur radio. However, that presented its own questions. Who are the hams within CERT; what amateur equipment do they have (if any); and what experience do they have with net operations?

The exercise was first advertised to all CERT members in November 2021. Each of the four area coordinators had a list of CERT volunteers who had amateur radio licenses. The request went out to those individuals specifically about their willingness to participate and about what equipment they could bring to the exercise. Once again, the amateur radio community stepped up to the challenge. Some years prior, a amateur radio operator had donated a dual band (VHF/UHF) radio transceiver. It was in a small metal suitcase. That generous donation was the foundation of the “suitcase station” that would be located at the EOC. There was already a 2-meter antenna on top of the police station. So, all we had to do was add a power supply, about 10 feet of coax, and the appropriate coax adapter to the suitcase.

Jim Hirahara, KK6KGQ, Logan Bodzin, WA4MGY, and Steve Donovan, WB6SAI, prepared the EOC radio station for the exercise. Steve Donovan and Logan Bodzin were the Net Control operator and scribe. The CERT organization wanted to conduct the exercise on only simplex frequencies if possible, knowing that the local area repeaters would likely be in use by RACES and others in the event of an actual local emergency.

Stephen Maris, N6BDW; Robert White, K6RWW; Molly Weden, KK6LNI; Mark Gilkey, KI6BQC; Dirk



CERT Members Logan Bodzin, WA4MGY (left), and Steve Donovan, WB6SAI, operated net control from the EOC at the Pleasant Hill Police Department. (Photo by Allen Vinson)

Bridgedale, KM6UXE; Larry Loomer, KI6LNB, and another volunteer responded to the request for amateur radio operator support. We decided to have the amateur radio operators initially report to the EOC for deployment. We didn’t want too many operators showing up at one ICP location and none at another.

(continued on following page)



All the amateur radio volunteers only had handie-talkies (HTs), which turned out to be somewhat of a blessing. If the EOC could establish communications with the ICPs using only HTs and on 2-meters simplex only, we felt confident that we would be well positioned in the event of a real emergency. The last question was how well these volunteers would perform in a “net operation” atmosphere.

It turned out that the experience level was better than expected and the learning curve for the others was very fast. The “newbies” to net operations picked up on the protocols immediately. Everyone waited their turn. There was very little “doubling.” The messages were (mostly) clear and concise. There was very little inter-communications between area ICPs on the net.

The complete announcement (above) went out on the morning of the exercise at 9:30am and three of the four areas were able to establish immediate communications with the EOC with no problem. We had difficulty with one area due to its distance from the EOC and the hill in between. The ham at that location resolved the challenge in true ham style of improvisation. He simply walked from the ICP to a more open spot in the parking lot, held his mic to his mouth, and raised his HT up at arm’s length in order to establish a readable contact. Problem solved.

We have since resolved the above issue. Each ICP has a storage shed for supplies such as tables, chairs, blankets, cots, etc. Some of those sheds are actually metal sheds with a flat roof. We purchased a magnetic mount antenna to use on top of the metal shed at that particular ICP. So, whenever the ICP is activated, the assigned ham simply needs to retrieve the antenna from inside the shed, slap it on top of the shed, and connect a radio (HT or otherwise). Several connectors will be stored to accommodate various HT antenna mounts. We’ve already tested it. We now have a full-quieting signal on simplex using only an HT between that Area ICP and the EOC.

The Net Control station handled nearly continuous messages back and forth about simulated fires, broken gas lines, injured neighbors, and the like. There were also some routine messages that did not need any action and possibly did not need transmission to the EOC at all. Although very busy, a little hot coffee and donuts helped keep the net operators happy. Thanks, Jim.

So, what were some of our “takeaways” from the exercise? There were several, but to name just a few:

- More training on message composition, i.e., short and concise. (KISS: **Keep It Simple, Sweetie**) and use phonetics where necessary.
- More training on what information needs to be communicated at all, and if so, to whom. i.e., message prioritization.
- More training on how to make ham HTs more effective. The typical “rubber duckie” antenna can be easily upgraded to boost effectiveness, such as a longer antenna, a portable J-pole antenna, a mag-mount antenna with a ¼ wave whip, etc.
- The FRS/GMRS radios experienced some interference from other conversations that were not part of the exercise. We need to develop protocols to respond to this issue, such as moving to a secondary channel.
- How do we more effectively recruit and train more CERT members into the amateur radio community and captivate their interest in emergency communications?
- Upgrade the message form to make it more intuitive with as many check-the-box options as possible to further reduce actual writing. (already in development by Logan Bodzin.)

We are already scheduling meetings to discuss and address our key learnings and takeaways.

For our first time conducting this kind of a city-wide exercise, we did remarkably well. Our assessment was largely confirmed by the professional consultant hired by the city to observe and assess the exercise. Best of all, we all had fun.

***Submitted by Steve Donovan, WB6SAI***

Originally published in the *ARRL ARES E-Newsletter*, April 20, 2022



# PACIFICON<sup>SM</sup> 2022

ARRL Pacific Division Ham Radio Convention  
*Produced by the Mount Diablo Amateur Radio Club*



**Registration opened on April 21, 2022! Registration information at:**  
<https://www.pacificon.org/registration/attendees>

The deadline for on-line registration is midnight Sunday, Oct. 2, 2022 Pacific time.  
Mail-in registrations must be postmarked by Tuesday, Sept. 27, 2022.  
After these dates, registration is at the door only.

**Please Note:** We ask that you refrain from using Marriott Bonvoy points or other methods of making reservations. If the Pacificon rate is not used, you will not get free parking or any other hotel amenities we've negotiated. In addition, we have contractually guaranteed that a minimum number of room-nights will be rented by our guests. Failure to meet that minimum will impact our financial ability to host Pacificon in the future.

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Our club wants **you** to help celebrate our 75<sup>th</sup> anniversary in 2022! Please direct any suggestions to Barb Whyson, K6WHY, at the MDARC groups.io electronic mail list page at <https://groups.io/g/MDARC/topics>

**75<sup>th</sup>**  
**ANNIVERSARY**

# Public Service Events 2022

by Larry Loomer, KI6LNB

Please put these onto your calendar and let <laryloomer@yahoo.com> know of your interest as soon as possible. You will be put onto the event rosters of your choice.

## **Ohlone 50k Running Race** Confirmed

**Sunday, May 22, 2022**

**Running race through four East Bay Parklands**

Radio Coordinator: Larry Loomer, KI6LNB <laryloomer@yahoo.com>

<http://www.ohlone50k.com>

## **Lake Chabot Trail Challenge** Confirmed

**Sunday, June 5, 2022**

**Running race, 5k and ½ Marathon in Castro Valley**

Radio Coordinator: Larry Loomer, KI6LNB <laryloomer@yahoo.com>

Event: Race Director: Rachel Leikela Lunt

## **Skyline 50k** Confirmed

**Sunday, August 7, 2022**

**Running Race in the Oakland Hills**

Race Coordinator: Larry Loomer, KI6LNB <laryloomer@yahoo.com>

Scena Performance <adam.ray@scenaperformance.com>

## **Walnut Festival Twilight Parade** (Tentative)

**Saturday, September 17, 2022**

**Parade in downtown Walnut Creek**

Radio Coordinator: Pete Harris, KE6ZIW pharris125@comcast.net

## **Firetrails 100k** Confirmed

**Saturday, September 24, 2022**

**Running Race in the Oakland Hills**

Race Coordinator: Larry Loomer, KI6LNB <laryloomer@yahoo.com>

Scena Performance <adam.ray@scenaperformance.com>

## **Round Hill Trail Ride**

Date (TBD)

Radio Coordinator: Elaine Baker

<http://www.natrcregion1.org/>

*(continued on following page)*

**Mt Diablo Challenge Bike Ride** Confirmed

**Sunday, October 2, 2022**

**Bike ride up Mount Diablo, Alamo, CA**

Race Coordinator: Larry Loomer, KI6LNB <larylloomer@yahoo.com>

Valley Spokesmen Bicycle Club

<http://www.valleyspokesmen.org/>

**Diablo Summit Stomp** Confirmed

**Saturday, October 22, 2022**

**Running Race from Castle Rock Park, Walnut Creek, CA**

Radio Coordinator: Larry Loomer KI6LNB <larylloomer@yahoo.com>

Brazen Racing <http://brazenracing.com/r/summitstompmain.html>

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**Register now for the Following 2022 Amateur Radio License Courses**

\* All 2022 License *Classes* are scheduled to be held in-person at the Odd Fellows Lodge at 4349 Cowell Road, Concord and simultaneously via Zoom.

\* A \$15.00 course fee applies to each course.

\* All classes are held in the evening 7:00 p.m. to 9:00 p.m.

\* Follow the links below to complete the required registration

**\*General Class License Course-2022**

<https://events.r20.constantcontact.com/register/eventReg?oeidk=a07eixkicms104e7489&oseq=&c=&ch=>

**Each Tuesday evening, Mar. 29 - May. 24, 2021 (9 Sessions)**

**\*Technician License Course B - 2022**

<https://events.r20.constantcontact.com/register/eventReg?oeidk=a07eixkicn4ad45bcd4&oseq=&c=&ch=>

**Each Tuesday evening, Jul. 19 – Sep. 6, 2022 (8 Sessions)**

**The complete 2022 License schedule and course details  
can be found at:**

<https://www.mdarc.org/activities/education-and-training/class-details>



# **MESH NETWORK PRESENTATION IN ANTIOCH ON MAY 26, 2022**

On Thursday May 26, 2022, Rob Rowlands, NZ6J, will give a presentation to the Delta Amateur Radio Club on the expansion of a Mesh Communication System into central and east Contra Costa County. The meeting will be held at the Veterans Memorial Hall, 403 West 6th Street, Antioch, at 7:15 PM. Parking is available at the back of the hall on 7th Street.

What is a Mesh network? Simply, it is amateur radio operators using their radio privileges to operate a closed, self-contained wireless computer network. Anything that can be done on a regular network/internet can be done on this private wi-fi network. The amateur radio Mesh network uses off-the-shelf wi-fi equipment that has been modified to permit equipment to be used on amateur radio frequencies under FCC Part 97 rules. This means much higher power can be used, where needed, to establish links between wireless routers known as “nodes.” Links between nodes can be achieved for miles and miles limited only by line-of-site.

*--- Submitted by Larry Loomer, KI6LNB, MDARC Emergency Coordinator*

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## **CARMICHAEL ELKS LODGE AMATEUR RADIO SWAP MEET SUNDAY MAY 29, 2022**

Mark your calendar and drop by the Sacramento Valley Section ARRL Booth from 7 am to 11 am.

The Carmichael Elks Amateur Radio Swap Meet returns this year to the Carmichael Elks Lodge 5631 Cypress Ave, Carmichael, California (near Sacramento).

Meet other Hams! Enjoy Donuts, Coffee, Hamfest Door Prizes, sellers and buyers, and much more!

Admission Free to Buyers! Free Parking!

Email John Dyer KJ6JD [john.jd3@gmail.com](mailto:john.jd3@gmail.com) for details

Talk-In: N6ICW repeater 147.195 +0.6 MHz PL 162.2



# **19th Annual Northern Nevada Radio Swap Meet**

## **Saturday June 4, 2022 AN ARRL-SANCTIONED EVENT**



*(Photos from [www.N7RCA.com](http://www.N7RCA.com))*

**7:00 am until ??? Minden, Nevada**

### **19th Annual Radio, Electronics and Hi-Fi Swap Meet**

**VINTAGE EQUIPMENT**, Modern gear, Drake, Collins, Johnson, Hi-Fi, all electronics.

Agenda: Swap - Buy - Sell - Trade- Have fun

No fee event, free for the hobbyist.

Swap meet is on N7RCA's 6-acre ranch. Parking, trailers and RV have easy access.

**BRING LOTS OF STUFF BY THE TRUCK LOAD !**

**WHERE: (N7RCA) in Minden, NV.**

(20 miles from S. Lake Tahoe) 15 miles south of Carson City NV.

**WHEN:** June 2, 2018 7:00 a.m.

#### **WHAT TO BRING:**

\*Yourself, truckloads of equipment if you have it, family, friends etc.

\*Bring your own drinks and food etc., none provided.

\*Chairs and a tables for swap.

You can drop off large loads the night before. RV's welcome on the ranch, before and after the swap meet...lots of parking.

Map and contact information at [www.N7RCA.com](http://www.N7RCA.com)

Weather Outlook: Temps in the day time can range from mid 60's to mid 80's. Nights in the 60's to low 40's. Bring a hat and sunscreen, the elevation is 5000 feet of clear blue open skies.

Additional information at: <http://www.arrl.org/hamfests/n7rca-n-nevada-annual-hamfest>

# MDARC Board of Directors Meeting April 4, 2022

Held at Zoom online

1. Call to Order: The meeting was called to order at 7:00 pm by Ed Morales, KJ6KYT after it was determined that there was a quorum for conducting Club business.

2. Roll Call: Attendees via Zoom screen shot:

Officers: Ed Morales, KJ6KYT, President; Brian Lotter KM6NGS, Secretary; Gene Sylls, KG6EYE, Treasurer; Larry Loomer, KI6LNB, Emergency Coordinator; Larry Bradley KK6QPE, Director at Large; Mike Warren W6MEW, Director at Large; Trevor Hall WA6JAU, Director at Large. Committee Chairs/Coordinator: Mike Patterson N6JGA; Jim Tittle K6SOE; Jan KM6NFC; Dick Wade WM6G Guests: Barb K6WHY; Bruce Bertel; Marilyn Warren.

3. **Approval of Minutes from Last Meeting:** Mike W6MEW, seconded by Larry KK6QPE, proposed a motion to approve. The minutes of the March 2022 meeting were approved without objection.

4. **Adopt Tonight's Agenda:** The agenda for this meeting was approved.

## 5. Officer reports:

a. President Ed Morales, KJ6KYT – Ed had no report. b. Vice-President (Vacant) – No report

c. Secretary Brian KM6NGS – Had no report.

d. Treasurer Gene Sylls, KG6EYE – reported that in spite of some software issues with QuickBooks, the bills have been paid, the taxes have been filed, the registry of charitable trust form has been filed with the state, liability insurance has been renewed, certificates of insurance have been sent to Oddfellows and the Lutheran church, yearly rent has been paid to the Lutheran church, and the Tax accountant has been paid. He also stated that the financials that he submitted were derived from bank information that he has.

6. **Emergency Coordinator Report:** Larry KI6LNB reported that the Diablo Trails Challenge will be on Saturday April 9th. Pete Harris is asking for volunteers for the MS Walk at Heather Farm Park on April 24th. Larry KK6QPE clarified that the new license fees only apply to the Technician class and not to upgrades from one class to the next.

7. **Directors at large reports:** Mike Warren W6MEW – had no report. Trevor Hall WA6JAU – had no report. Larry Bradley KK6QPE – had no report. Cal Vasquez K6VT – was not in attendance.

## 8. Committee Reports:

a. Auction: Mike W6MEW reported that arrangements are going well and that there will be a meeting on April 13 to finalize arrangements. Mike N6JGA noted that there is a link to the auction page on the website where details can be found.

b. Communications Trailer: Mike W6MEW reported that the trailer is parked and ready.

c. Digital Media: Mike Patterson N6JGA reported that the digital review team has been meeting and that they have made some improvements to the website. The PACIFICON website will be launched close to April 15. He is also developing terms of use and privacy statements, for the website, which will be presented to the board for approval.

d. Education and Training: John AF6RJ sent a report by email.

f. Election Committee: No report was expected

g. Field Day: Larry KI6LNB reported that he has reached out to his contact at Olympic High School in Concord but has not received a response yet.

h. Holiday Banquet: No report was expected.

i. License Testing: Larry KI6LNB reported that there will be license testing on April 16, starting at 10 am at the Heritage High School in Antioch and from 12 to 3pm at the Clayton Valley Presbyterian Church.

j. Membership: Jan KM6NFC shared his screen showing the Membership Report from the MDARC Members Portal. There are still some inconsistencies in the renewal process related to family members which he hopes to have completely resolved by the next renewal period. The Membership Portal is now available to all members.

*(continued on following page)*



- k. Mesh Committee: Mike W6MEW reported that the MESH network is slowly building in and that he now has a tunnel so that anybody connecting to his node via wireless, can reach out to other nodes via his tunnel. No new nodes have been established in central county, recently. Mike agreed to do a presentation on MESH to a General meeting later this year.
- l. Outreach: Dick Wade WM6G reported that Outreach is moving along well.
- m. PACIFICON: Mike N6JGA reported that the next meeting will be held on April 13<sup>th</sup>.
- n. Program: Ed KJ6KYT is still looking for a person to chair this committee.
- o. Radio Lending Library: No report was expected
- p. Rocky Ridge Repeater: Jim Tittle K6SOE reported that MDARC-1 is ready to go. There is a new DMR only repeater on North Peak operating on 145.925 MHz. Somebody has played a recording on Black Lives Matter over the repeater which caused Jim to shut it down for a short time. Jim asked that anybody who hears him should see if they can hear him on the repeater input so that we can find his location.
- q. Scholarship: Janice Fujii, KG6VTD - No report was expected
- r. 75-year Celebration Committee: Barb K6WHY reported that she wrote the article on the 75<sup>th</sup> year anniversary and sent it out for approval as promised. She received only one reply which was from John Primus AF6RJ and is going ahead with sending it out to various publications. Misa is working on a pattern for the embroidery of a logo for the 75<sup>th</sup> anniversary and has a reservation at Zio Fraedo's for the holiday dinner she is also working on table center pieces to celebrate our 75<sup>th</sup> anniversary.

## **9. Future Meetings:**

MDARC Auction 4/22/22 in-person at Our Savior Lutheran Church, Main Hall with Zoom option.  
Board Meeting 5/2/22 on Zoom only.

## **10. Unfinished Business:**

- 10.1 Storage location for donated radio equipment, manuals and literature: Dick said that, after the auction, there will be some space at his place again. Ed KJ6KYT asked that other members consider offering some space for storage too.
- 10.2 Status report on revising Membership database for processing and tracking payments, status, etc.: Jan KM6NFC added that he has received a complaint that somebody did not receive a hard copy of the Carrier but that only one person actually requested and paid for it.
- 10.3 75<sup>th</sup> year celebration: This was covered under section r. of the committee reports.
- 10.4 Document Retention Program: ED KJ6KYT said that he would call a separate meeting with Larry KK6QPE and the secretary to discuss this further.
- 10.5 Program Committee: Program Committee: Ed KJ6KYT said that he will continue to look for a program chair and will continue to do the job until he finds someone.
- 10.6 Trustee for W6LGW: Trevor stated that Larry KI6LNB has been appointed as the trustee for the W6LGW call sign and can therefore go ahead and submit the necessary documents to the FTC. This was approved by the board at the March Board Meeting (see New Business 11.1)
- 10.7 Financial Audit for 2022: Gene KG6EYE stated that he has an audit document from 2018 which lists Dick Wade, Dave Piersall and John Primus as the audit committee members. He is planning to reach out to them to see if they are willing to volunteer to do it again. Ed KJ6KYT asked for others to volunteer too and said that he will oversee it.
- 10.8 Auction: Was covered in section 8 a above.
- 10.9 Disposition of old radio equipment from South Peak: A visit to South Peak was scheduled for Trevor Hall WA6JAU and Mathison Ott KJ6DZB but Trevor was called in to work so the visit has been rescheduled to this week.

## **11. New Business:**

- 11.1 Looking for ideas to engage Zoom audience during General Meetings: Ed KJ6KYT asked for ideas on how to engage the Zoom attendees. A number of suggestions were put forward including gift cards or MDARC Mugs as prizes for the correct answer to a question posed by the speaker. Ed said that he would give it some more thought and develop something a little more concrete.
- 11.2 Weather station upgrade: Jim K6SOE reported that the anemometer on the present system has failed and proposed the Davis instruments Vantage Pro2 system which will replace all of its functions and also connect to the internet. Mike Warren W6MEW, suggested that Jim consider Ecowitt as a potential supplier because they are cheaper and nearly the same quality. Jim agreed to search for other options. After much discussion it was decided to proceed with replacement. A proposal will be presented to the board for approval.

**12. Adjournment:** Trevor WA6JAU, seconded by Mike W6MEW, proposed a motion to adjourn. All members voted in favor. Meeting Adjourned at 8:37 pm Respectfully submitted by Brian Lotter KM6NGS Secretary, on April 27, 2022  
These meeting minutes were signed digitally due to the digital meeting.

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## FTDX101MP | 200W HF/50MHz Transceiver

- Hybrid SDR Configuration • Unparalleled 70 dB Max. Attenuation VC-Tune • New Generation Scope Display 3DSS • ABI (Active Band Indicator) & MPVD (Multi-Purpose VFO Outer Dial) • PC Remote Control Software to Expand the Operating Range • Includes External Power With Matching Front Speaker



## FTDX10 | HF/50MHz 100 W SDR Transceiver

- Narrow Band and Direct Sampling SDR • Down Conversion, 9MHz IF Roofing Filters Produce Excellent Shape Factor • 5" Full-Color Touch Panel w/3D Spectrum Stream • High Speed Auto Antenna Tuner • Microphone Amplifier w/3-Stage Parametric Equalizer • Remote Operation w/optional LAN Unit (SCU-LAN10)



## FT-991A | HF/VHF/UHF All Mode Transceiver

- Real-time Spectrum Scope with Automatic Scope Control • Multi-color waterfall display • State of the art 32-bit Digital Signal Processing System • 3kHz Roofing Filter for enhanced performance • 3.5 Inch Full Color TFT USB Capable • Internal Automatic Antenna Tuner • High Accuracy TCXO



## FTDX101D | HF + 6M Transceiver

- Narrow Band SDR & Direct Sampling SDR • Crystal Roofing Filters Phenomenal Multi-Signal Receiving Characteristics • Unparalleled -70dB Maximum Attenuation VC-Tune • 15 Separate (HAM 10 + GEN 5) Powerful Band Pass Filters • New Generation Scope Displays 3-Dimensional Spectrum Stream



## FT-891 | HF+50 MHz All Mode Mobile Transceiver

Rugged Construction in an Ultra Compact Body • Stable 100 Watt Output with Efficient Dual Internal Fans • 32-Bit IF DSP Provides Effective and Optimized QRM Rejection • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to a PC with a Single Cable • CAT Control, PTT/RTTY Control



## FTM-300DR | C4FM/FM 144/430MHz Dual Band

- 50W Reliable Output Power • Real Dual Band Operation (V+V, U+U, V+U, U+V) • 2-inch High-Res Full Color TFT Display • Band Scope • Built-in Bluetooth • WIRES-X Portable Digital Node/Fixed Node with HRI-200



## FT-2980R | Heavy-Duty 80W 2M FM Transceiver

- Massive heatsink guarantees 80 watts of solid RF power • Loud 3 watts of audio output for noisy environments • Large 6 digit backlit LCD display for excellent visibility • 200 memory channels for serious users



## FT-818ND | HF/6M/2M/440 All Mode Portable Xcvr

- Ultra-Compact/Portable • Multi-Color Easy to See LCD • 208 Memory Channels/10 Memory Groups • Built-in Electronic Keyer • Internal Battery Operation Capability • Two Antenna Connectors • Built-in High Stability Oscillator ±0.5 ppm



## FTM-400XD | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

## FT-70DR C4FM/FM 144/430MHz Xcvr

- System Fusion Compatible • Large Front Speaker delivers 700 mW of Loud Audio Output • Automatic Mode Select detects C4FM or FM Analog and Switches Accordingly • Huge 1,105 Channel Memory Capacity • External DC Jack for DC Supply and Battery Charging



## FT-5DR C4FM/FM 144/430 MHz Dual Band

- High-Res Full-Color Touch Screen TFT LCD Display • Easy Hands-Free Operation w/Built-In Bluetooth® Unit • Built-In High Precision GPS Antenna • 1200/9600bps APRS Data Communications • Supports Simultaneous C4FM Digital • Micro SD Card Slot

## FT-65R | 144/430 MHz Transceiver

Compact Commercial Grade Rugged Design • Large Front Speaker Delivers 1W of Powerful Clear Audio • 5 Watts of Reliable RF Power Within a compact Body • 3.5-Hour Rapid Charger Included • Large White LED Flashlight, Alarm and Quick Home Channel Access



## FTM-6000R | 50W VHF/UHF Mobile Transceiver

- All New User Operating Interface-E20-III (Easy to Operate-III) • Robust Speaker Delivers 3W of Clear, Crisp Receive Audio • Detachable Front Panel Can Be Mounted in Multiple Positions • Supports Optional Bluetooth® Wireless Operation Using the SSM-BT10 or a Commercially Available Bluetooth® Headset

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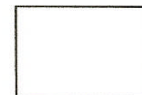
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## The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club  
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### NEXT MONTH:

### FIRST CLASS



<https://www.facebook.com/mdarc.org>

#### W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.78- 441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Digital Amateur Television Net 147.060+

#### Club FM Repeaters

147.060 MHz + / PL 100Hz

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

<https://www.broadcastify.com/listen/feed/25334>

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

DATV Internet Stream: <http://w6cxatv.mdarc.org/>

YouTube Channel: **Media MDARC**

#### Contra Costa County Emergency Communications Nets Every Thursday

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

#### Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

#### Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

### May and June 2022 Club Calendar

Friday May 20, 2022	7:00pm - MDARC General Meeting - Our Saviors Lutheran Church 1035 Carol Lane Lafayette Also available on zoom.us via link sent from groups.io or watch on DATV repeater
Saturday June 4, 2022	8:00am - MDARC Technical Committee Meeting - VIA VIDEO CONFERENCE
Monday June 6, 2022	7:00pm - MDARC Board of Directors Meeting - VIA VIDEO CONFERENCE
Friday June 17, 2022	7:00pm - MDARC General Meeting- Our Saviors Lutheran Church 1035 Carol Lane Lafayette